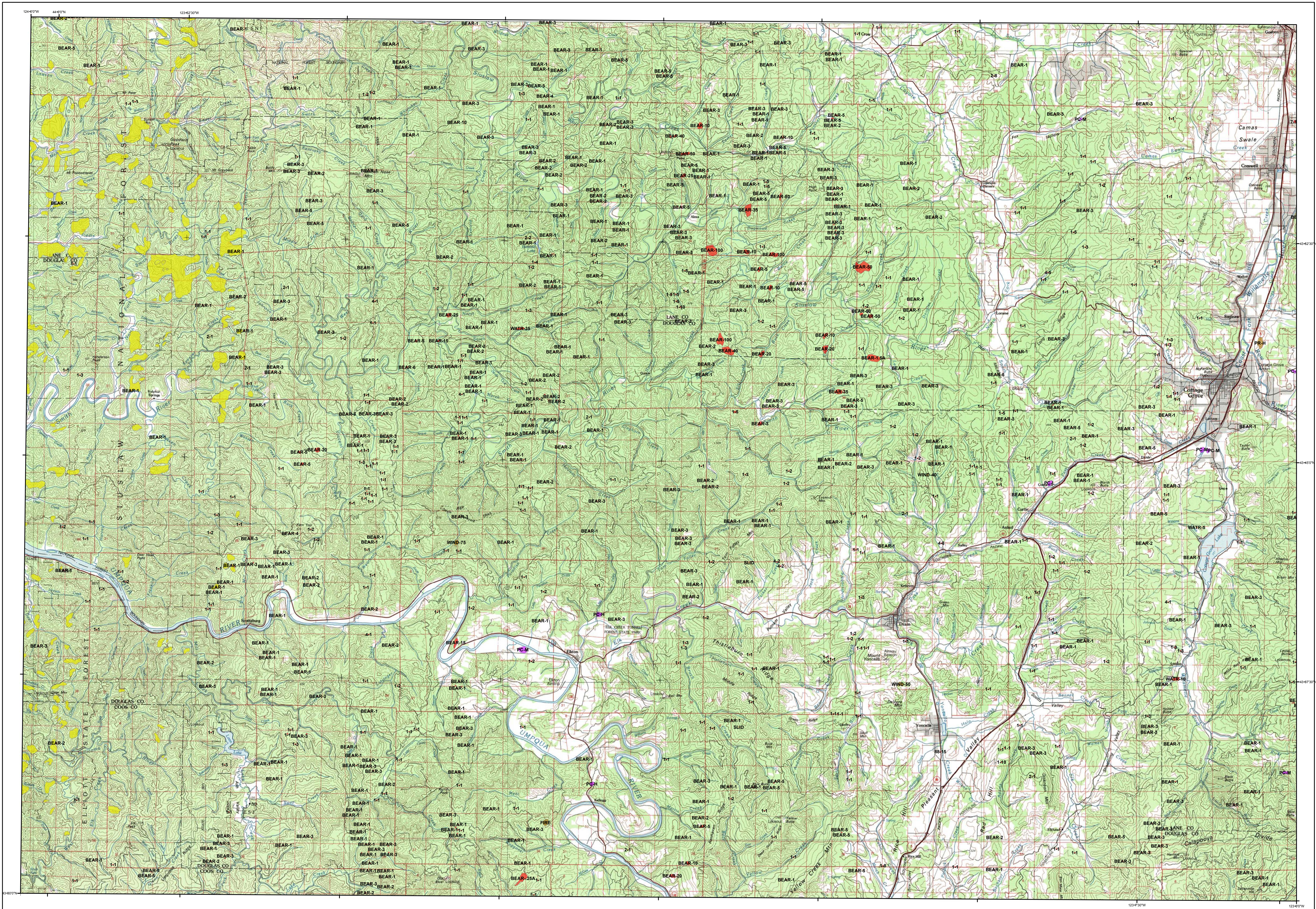


2007 Aerial Insect and Disease Survey

USGS 100K Quad: Cottage Grove - E143123; 2K



Defoliators		Mortality Agents	
Code	Damaging Agent	Code	Damaging Agent
AS	Spruce aphid	1	Douglas-fir beetle
BB	Western black-headed budworm	2	Douglas-fir engraver
BM	Modio budworm	3	Spruce beetle
BP	Sugar pine tortrix	4	True fir
BS	Western spruce budworm	5	Western balsam bark beetle
BY	Bynum's light/loophole	6	Mountain pine beetle
CH	Larch	6B	Mountain pine beetle
HL	Western hemlock looper	6L	Mountain pine beetle
LG	Green striped forest looper	6P	Mountain pine beetle
LL	Larch looper	6S	Mountain pine beetle
LS	Black pine needle scale	6W	Mountain pine beetle
MD	Douglas-fir budmoth	7	Upright
ML	Larch budmoth	8	Western pine beetle
MN	Douglas-fir needle midge	8B	Western pine beetle
MS	Spruce budmoth	8L	Western pine beetle
ND	Needle miner	8P	Western pine beetle
NJ	Needle miner	8S	Western pine beetle
NK	Needle miner	8W	Western pine beetle
NL	Needle miner	9	Needle miner
NM	Needle miner	9B	Needle miner
NP	Needle miner	9L	Needle miner
NS	Needle miner	9P	Needle miner
NT	Needle miner	9S	Needle miner
NW	Needle miner	9W	Needle miner
OL	Western oak looper	10	Needle miner
OB	Pine butterfly	11	Needle miner
OC	Pine needle cast	12	Needle miner
PH	Phantom hemlock looper	13	Needle miner
PM	Pandora moth	14	Needle miner
PN	Pine needleshield miner	15	Needle miner
PS	Pine needle scale	16	Needle miner
RC	Needle cast	17	Needle miner
S	Spruce mite	18	Needle miner
SA	Sawfly	19	Needle miner
SD	Sawfly	20	Needle miner
SH	Sawfly	21	Needle miner
SK	Sawfly	22	Needle miner
SL	Sawfly	23	Needle miner
SN	Sawfly	24	Needle miner
SW	Sawfly	25	Needle miner
TA	Tent caterpillar, alder	26	Needle miner
TC	Tent caterpillar, other	27	Needle miner
TD	Tent caterpillar, aspen	28	Needle miner

USGS 100K Quad: Cottage Grove - E143123; 2K
2007 Aerial Insect and Disease Detection Survey
Mapscale: 1:100,000
Date: November 23, 2007

Legend

2007 Special Swiss Needle Cast Survey
More information about this special survey and the related data is located under 'Maps and Data' at: <http://www.oregonstate.edu/uspc/fth/>

Defoliating Agents

Mortality Agents

Other Damage

The map base was created with TOPO! (Copyright 2001, National Geographic), available online at: www.ngmapstore.com

A data dictionary, digital copies of this map and ArcGIS insect and disease data are available at: www.fed.us/ers/nr/fid/data.shtml

Vicinity Map

How the Aerial Surveys are Conducted

Data represented on this map are based on trees visibly affected by forest insects and diseases detected and recorded during aerial survey flights conducted by the USDA Forest Service and the Oregon Department of Forestry. Observers have just a few seconds to recognize the color difference between healthy and damaged trees of different species; diagnose causal agents correctly; estimate intensity, delineate the extent of damage; and precisely record this information on a georeferenced, digital map. Air turbulence, cloud shadows, distance from aircraft, haze, smoke and observer experience can all affect the quality of the survey. These data summaries provide an estimate of conditions on the ground and may differ from estimates derived by other methods.

The aerial survey provides information on the current status for many causal agents, and is important when examining insect activity trends by comparing historical and current survey data over large areas.

Overview surveys are a 'snap shot' in time and therefore may not be timed to accurately capture the true extent or severity of a particular disturbance activity. Specially designed surveys with modified flight patterns and timing may be conducted to more accurately delineate the extent and severity of a particular disturbance agent. Special surveys, such as Swiss needle cast surveys, are conducted when resources are available to address situations of sufficient economic, political or environmental importance.

DIRECT ALL INQUIRIES TO:

Oregon Department of Forestry
Forest Health Management
2600 State Street
Salem, Oregon 97310

-- OR --

USDA Forest Service, Region 6
Natural Resources
Forest Health Protection
PO Box 3623
Portland, Oregon 97208

****DISCLAIMER****

The insect and disease data presented should only be used as an indicator of insect and disease activity, and should be ground-checked for precise location, extent, severity and causal agent.

Color coded polygons show locations where trees were recently killed or defoliated. Intensity of damage is variable and not all trees within coded polygons are dead or defoliated.

The cooperators reserve the right to correct, update, modify or replace GIS products without notice. Using this map for purposes other than those for which it was intended may yield inaccurate or misleading results.